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Delatycki, Martin
Wilcox, Stephen
de Silva, Michelle
Elliott, Katherine
Lynch, Michael

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Gln	Ile	Ile	Ser	Lys	Leu	Pro	Leu	Phe	Ser	Ser	Cys	Gln	Ile	Gln	Gln	
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Phe	Cys	Lys	Tyr	Ala	Ala	Glu	Leu	Ile	Glu	Arg	Val	Ser	Gly	Lys	Pro	
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Ser	Ala	Phe	Thr	Pro	Val	Thr	Ala	Ala	Ala	Ser	Pro	Val	Ser	Leu	Pro	
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 Pro Lys Tyr Gly Gly Val Asp Gly Gly Cys Phe Asp Arg His Leu Ile
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 Phe Ser Arg Phe Arg Pro Ile Ser Val Phe Arg Glu Ala Asn Glu Asp
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 Glu Ser Gly Phe Thr Cys Cys Ala Phe Ser Ala Arg Glu Arg Phe Leu
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 Arg Ala Lys Val Ala Met Ser Gly Arg Val Ile Gly Arg Asn Pro Ile
 65 70 75 80
 Lys Ile Gly Tyr Gly Lys Ala Asn Pro Thr Thr Arg Leu Trp Val Gly
 85 90 95
 Gly Leu Gly Pro Asn Thr Ser Leu Ala Ala Leu Ala Arg Glu Phe Asp
 100 105 110
 Arg Phe Gly Ser Ile Arg Thr Ile Asp His Val Lys Gly Asp Ser Phe
 115 120 125
 Ala Tyr Ile Gln Tyr Glu Ser Leu Asp Ala Ala Gln Ala Ala Cys Ala
 130 135 140

Lys Met Arg Gly Phe Pro Leu Gly Gly Pro Asp Arg Arg Leu Arg Val
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 Asp Phe Ala Lys Ala Glu Glu Thr Arg Tyr Pro Gln Gln Tyr Gln Pro
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 Ser Pro Leu Pro Val His Tyr Glu Leu Leu Thr Asp Gly Tyr Thr Arg
 180 185 190
 His Arg Asn Leu Asp Ala Asp Leu Val Arg Asp Arg Thr Pro Pro His
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 210 215 220
 Ser Pro Ser Lys Ser Ser Asp Arg Arg Asn Ser Leu Glu Gly Tyr Ser
 225 230 235 240
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 245 250 255
 Arg Gly Leu Pro Lys Pro Trp Glu Glu Arg Arg Lys Arg Arg Ser Leu
 260 265 270
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 275 280 285
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 Pro Glu Arg Ser Arg Lys Glu Asn His Ser Ser Glu Gly Thr Lys Glu
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 Ser Ser Ser Asn Ser Leu Ser Asn Ser Arg His Gly Ala Glu Glu Arg
 325 330 335
 Gly His His His His His His Glu Ala Ala Asp Ser Ser His Gly Lys
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 370 375 380
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 385 390 395 400
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 405 410 415
 Gln Gly Val Ile Ser Ser Leu Leu Lys Asp His Thr Ser Gly Ser Lys
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Leu Val Ser Tyr Leu Lys Gln Lys Gln Ala Ala Gly Val Ile Ser Leu				
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Pro Val Gly Gly Ser Lys Gly Arg Asp Gly Thr Gly Met Leu Tyr Ala				
	515		520	525
Phe Pro Pro Cys Asp Phe Ser Gln Gln Tyr Leu Gln Ser Ala Leu Arg				
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Arg Arg Arg Arg Met Arg Arg Met Trp Ala Thr Gln Gly Leu Ala Val
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Ala Leu Ala Leu Ser Val Leu Pro Gly Ser Arg Ala Leu Arg Pro Gly
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Lys Asp Arg Asp Val Thr Phe Ser Pro Ala Thr Ile Glu Asn Glu Leu
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Ile Lys Phe Cys Arg Glu Ala Arg Gly Lys Glu Asn Arg Leu Cys Tyr
115 120 125
Tyr Ile Gly Ala Thr Asp Asp Ala Ala Thr Lys Ile Ile Asn Glu Val
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Ser Lys Pro Leu Ala His His Ile Pro Val Glu Lys Ile Cys Glu Lys
145 150 155 160

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 Ile Asp Leu Ser Thr Val Asp Leu Lys Lys Leu Arg Val Lys Glu Leu
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Leu Glu Ile Gly Glu Thr Val Gln Ile Leu Glu Lys Cys Glu Gly Trp	
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Tyr Arg Gly Val Ser Thr Lys Lys Pro Asn Val Lys Gly Ile Phe Pro	
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Tyr Glu Thr Val Val Pro Leu Glu Asp Ser Ile Val Thr Glu Val Thr	
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gca act cta caa gaa tgg gca agt ttg tgg aaa cag ttg tat gtg aaa	341
Ala Thr Leu Gln Glu Trp Ala Ser Leu Trp Lys Gln Leu Tyr Val Lys	
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Ile Asp Leu Arg Arg Gln Leu Leu Ser Gly His Leu Thr Gln Asp Gln	
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Val Arg Glu Val Lys Arg His Ile Thr Val Arg Leu Asp Trp Gly Asn	
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Glu His Leu Gly Leu Asp Leu Val Pro Arg Lys Asp Phe Glu Val Val	
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460	465	470	
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cga cct gtg atg gac acg tat atc cag aag cac ttt gct gga gct ctg Arg Pro Val Met Asp Thr Tyr Ile Gln Lys His Phe Ala Gly Ala Leu 685 690 695			2117
gca tac aag gag ctc atc cgc tgt ttg aag tgg tat atg gac tgc tca			2165

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Glu Tyr Leu Phe Lys Phe Ile Val Gln Ser Arg Ile Leu Tyr Ser Arg	
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Glu Thr Leu Leu Phe Thr Gln Ala Ala Leu Leu Asn Ser Phe Pro Thr	
780 785 790	
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Ile Phe Asp Glu Leu Leu Gln Met Phe Thr Val Gln Glu Val Ala Glu	
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Phe Val Arg Gly Thr Leu Gly Ser Met Pro Ser Thr Val His Ile Gly	
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Gln Ser Met Asp Val Val Lys Leu Gln Ser Ile Ala Arg Thr Val Asp	
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Ser Arg Leu Phe Ser Phe Ser Glu Ser Arg Arg Ile Leu Leu Pro Val	
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Ile Cys Ser Gly Ile Leu Gly Ser Ile Phe Ser Ile Val Lys Thr Ser	
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Thr Leu Arg Lys Ser Pro Leu His Pro Ile Pro Ala Ser Pro Thr	
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Thr Tyr Asn Thr Ile Gly Glu Asp Thr Asp Val Phe Phe Ser Leu Tyr						
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Ala Leu Phe Thr Asp Leu Ser Ser Lys Asp Met Lys Arg Asp Leu Tyr						
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Lys Lys Gly Pro Pro His Leu His Tyr Arg Arg Pro Tyr Gly Cys Ala						
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Val Leu Ser Ile Leu Asp Val Leu Gln Ser Leu Thr Glu Val Lys Glu						
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1970

1975

1980

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Leu Thr Ile Leu Thr Ile Trp Leu Phe Lys Asn His Arg Phe Arg Phe
 35 40 45

Leu His Glu Thr Gly Gly Ala Met Val Tyr Gly Leu Ile Met Gly Leu
 50 55 60

Ile Leu Arg Tyr Ala Thr Ala Pro Thr Asp Ile Glu Ser Gly Thr Val
 65 70 75 80

Tyr Asp Cys Val Lys Leu Thr Phe Ser Pro Ser Thr Leu Leu Val Asn
 85 90 95

Ile Thr Asp Gln Val Tyr Glu Tyr Lys Tyr Lys Arg Glu Ile Ser Gln
 100 105 110

His Asn Ile Asn Pro His Gln Gly Asn Ala Ile Leu Glu Lys Met Thr
 115 120 125

Phe Asp Pro Glu Ile Phe Phe Asn Val Leu Leu Pro Pro Ile Ile Phe
 130 135 140

His Ala Gly Tyr Ser Leu Lys Lys Arg His Phe Phe Gln Asn Leu Gly
 145 150 155 160

Ser Ile Leu Thr Tyr Ala Phe Leu Gly Thr Ala Ile Ser Cys Ile Val
 165 170 175

Ile Gly Leu Ile Met Tyr Gly Phe Val Lys Ala Met Ile His Ala Gly
180 185 190

Gln Leu Lys Asn Gly Asp Phe His Phe Thr Asp Cys Leu Phe Phe Gly
195 200 205

Ser Leu Met Ser Ala Thr Asp Pro Val Thr Val Leu Ala Ile Phe His
210 215 220

Glu Leu His Val Asp Pro Asp Leu Tyr Thr Leu Leu Phe Gly Glu Ser
225 230 235 240

Val Leu Asn Asp Ala Val Ala Ile Val Leu Thr Tyr Ser Ile Ser Ile
245 250 255

Tyr Ser Pro Lys Glu Asn Pro Asn Ala Phe Asp Ala Ala Ala Phe Phe
260 265 270

Gln Ser Val Gly Asn Phe Leu Gly Ile Phe Ala Gly Ser Phe Ala Met
275 280 285

Gly Ser Ala Tyr Ala Ile Ile Thr Ala Leu Leu Thr Lys Phe Thr Lys
290 295 300

Leu Cys Glu Phe Pro Met Leu Glu Thr Gly Leu Phe Phe Leu Leu Ser
305 310 315 320

Trp Ser Ala Phe Leu Ser Ala Glu Ala Ala Gly Leu Thr Gly Ile Val
325 330 335

Ala Val Leu Phe Cys Gly Val Thr Gln Ala His Tyr Thr Tyr Asn Asn
340 345 350

Leu Ser Ser Asp Ser Lys Ile Arg Thr Lys Gln Leu Phe Glu Phe Met
355 360 365

Asn Phe Leu Ala Glu Asn Val Ile Phe Cys Tyr Met Gly Leu Ala Leu
370 375 380

Phe Thr Phe Gln Asn His Ile Phe Asn Ala Leu Phe Ile Leu Gly Ala
385 390 395 400

Phe Leu Ala Ile Phe Val Ala Arg Ala Cys Asn Ile Tyr Pro Leu Ser
405 410 415

Phe Leu Leu Asn Leu Gly Arg Lys Gln Lys Ile Pro Trp Asn Phe Gln
420 425 430

His Met Met Met Phe Ser Gly Leu Arg Gly Ala Ile Ala Phe Ala Leu
435 440 445

Ala Ile Arg Asn Thr Glu Ser Gln Pro Lys Gln Met Met Phe Thr Thr
450 455 460

Thr Leu Leu Leu Val Phe Phe Thr Val Trp Val Phe Gly Gly Gly Thr
465 470 475 480

Thr Pro Met Leu Thr Trp Leu Gln Ile Arg Val Gly Val Asp Leu Asp
485 490 495

Glu Asn Leu Lys Glu Asp Pro Ser Ser Gln His Gln Glu Ala Asn Asn
500 505 510

Leu Asp Lys Asn Met Thr Lys Ala Glu Ser Ala Arg Leu Phe Arg Met
515 520 525

Trp Tyr Ser Phe Asp His Lys Tyr Leu Lys Pro Ile Leu Thr His Ser
530 535 540

Gly Pro Pro Leu Thr Thr Thr Leu Pro Glu Trp Cys Gly Pro Ile Ser
545 550 555 560

Arg Leu Leu Thr Ser Pro Gln Ala Tyr Gly Glu Gln Leu Lys Glu Asp
565 570 575

Asp Val Glu Cys Ile Val Asn Gln Asp Glu Leu Ala Ile Asn Tyr Gln
580 585 590

Glu Gln Ala Ser Ser Pro Cys Ser Pro Pro Ala Arg Leu Gly Leu Asp
595 600 605

Gln Lys Ala Ser Pro Gln Thr Pro Gly Lys Glu Asn Ile Tyr Glu Gly
610 615 620

Asp Leu Gly Leu Gly Gly Tyr Glu Leu Lys Leu Glu Gln Thr Leu Gly
625 630 635 640

Gln Ser Gln Leu Asn
645